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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s)      Joseph L. Merenda      Examiner:      Unassigned  
Serial No.:      09/982,943      Group Art Unit:      2681  
Confirmation No:      8245      Docket:      238-47  
Filed:      October 18, 2001      Dated:      January 3, 2002  
For:      EVEN HARMONIC MIXER  
            WITH HIGH-INPUT, THIRD-  
            ORDER INTERCEPT POINT

Commissioner for Patents  
Washington, DC 20231

*I hereby certify this correspondence is being deposited  
with the United States Postal Service as First Class  
Mail, postpaid in an envelope, addressed to:  
Commissioner for Patents, Washington, D.C. 20231  
On January 3, 2002*  
Signature: Joyce Peterson

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 C.F.R.  
§ 1.56, Applicant submits herewith the following Information Disclosure Statement in  
accordance with the provisions of 37 C.F.R. § 1.97 and § 1.98.

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**UNITED STATES PATENTS**

<b><u>PATENTEE</u></b>	<b><u>PATENT NO.</u></b>	<b><u>ISSUE DATE</u></b>
Bossard	4,747,160	May 24, 1988
Kay	US 6,229,395 B1	May 8, 2001

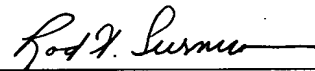
### **NON-PATENT PUBLICATIONS**

1. J. L. Merenda, D. Neuf, and P. Piro, "4 to 40 GHZ Even Harmonic Schottky Mixer", IEEE MTT-S Digest, pp. 695-698 (1988).
2. Technical Data Sheet (HSCH-9301 & HSCH-9351), "GaAs Beam Lead Schottky Barrier Ring and Bridge Diodes", Agilent Technologies (1999).
3. Technical Data Sheet (HMC259), "GaAs MMIC Sub-Harmonically Pumped Mixer 28-40 GHz", Hittite Microwave Corporation, pp.4-112 - 4-117 (February 2001).
4. Technical Data Sheet (HMC330), "GaAs MMIC Sub-Harmonically Pumped Mixer 25-40 GHz", Hittite Microwave Corporation, pp.4-204 - 4-209 (February 2001).
5. M. Cohn, J. E. Degenford, and B. A. Newman, "Harmonic Mixing with an Anti-Parallel Diode Pair", IEEE S-MITT International Microwave Symposium Digest, pp.171-172 (June 1974).
6. M. V. Schneider, and W.W. Snell, Jr., "Harmonically Pumped Stripline Down-Converter", IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-23, No. 3, pp.271-275 (March 1975).
7. D. Neuf, "Even Harmonic Mixers Offer Unique Features for Millimeter Bands, Microwave System News, pp. 103-119 (1982).

A copy of the references set forth above has been submitted herewith for the convenience of the Examiner, and a separate listing of the same has been set forth on Form PTO-1449, which is also submitted herewith. Accordingly, in view of the present submission, it is now believed that the present application is in all respects complete and in condition for examination on the merits.

If the Examiner has any questions or comments relating to the present application, he or she is respectfully invited to contact Applicant's attorney at the telephone number provided below.

Respectfully submitted,

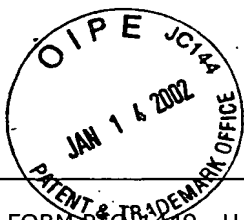


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RST/jp

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. 238-47	SERIAL NO. 09/982,943
	APPLICANT Joseph L. Merenda	CONFIRMATION NO. 8245
	FILING DATE October 18, 2001	GROUP 2681

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4,747,160	05/24/88	Bossard			
	6,229,395	05/08/01	Kay			

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

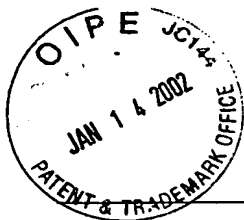
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		J.L. Meranda, D. Neuf, and P. Piro, "4 to 40 GHZ Even Harmonic Schottky Mixer", <u>IEEE MTT-S Digest</u> , pp. 695-698 (1988).
		Technical Data Sheet (HSCH-9301 & HSCH-9351), "GaAs Beam Lead Schottky Barrier Ring and Bridge Diodes", <u>Arilent Technologies</u> (1999).
		Technical Data Sheet (HMC259), "GaAs MMIC Sub-Harmonically Pumped Mixer 28-40 GHz", <u>Hittite Microwave Corporation</u> , pp. 4-112 - 4-117 (February 2001).
		Technical Data Sheet (HMC330), GaAs MMIC Sub-Harmonically Pumped Mixer 25-40 GHz", <u>Hittite Microwave Corporation</u> , pp. 4-204 - 4-209 (February 2001)
		M. Cohn, J.E. Degenford, and B.A. Newman, "Harmonic Mixing with an Anti-Parallel Diode Pair", <u>IEEE S-MITT International Microwave Symposium Digest</u> , pp. 171-172 (June 1974).

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
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STATEMENT BY APPLICANTAPPLICANT  
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(Use several sheets if necessary)

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275 (March 1975).D. Neuf, "Even Harmonic Mixers Offer Unique Features for Millimeter Bands, Microwave  
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